

## Report:

The experimental results have been published in the paper
G. Seguini, T. J. Giammaria, F. Ferrarese Lupi, K. Sparnacci, D. Antonioli, V. Gianotti, F. Vita, I. F. Placentino, J. Hilhorst, C. Ferrero, O. Francescangeli, M. Laus, M. Perego, "Thermally induced self-assembly of cylindrical nanodomains in low molecular weight PS-bPMMA thin films", Nanotechnology 25, 045301 (2014),
whose abstract is reported below
The phase behaviour in thin films of an asymmetric polystyrene-b-polymethylmethacrylate (PS-b-PMMA) block copolymer with a molecular weight of $39 \mathrm{~kg} \mathrm{~mol}^{-1}$ was assessed at a wide range of temperatures and times. Cylindrical PMMA structures featuring a diameter close to 10 nm and perpendicularly oriented with respect to the substrate were obtained at $180{ }^{\circ} \mathrm{C}$ in relatively short annealing times ( $t<30 \mathrm{~min}$ ) by means of a simple thermal treatment performed in a standard rapid thermal processing machine.

